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MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,

WENZHOU ZHEJIANG P.R. CHINA

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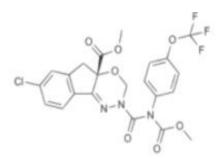
1. Chemical Product Identification

Product Name: Indoxacarb 35% WDG

Molecular Formula: C₂₂H₁₇ClF₃N₃O₇

Molecular Weight: 527.83 g/mol

Structural Formula:



Chemical Name:

Methyl(S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl) indeno[1,2-e][1,3,4] oxadia zin-2-ylcarbonyl]-4'-(trifluoromethoxy) carbanilate

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Indoxacarb	144171-61-9	35%
Others ingredients		65%

3. Hazards Identification

Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after



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handling. Harmful if inhaled. Avoid breathing dust. Avoid breathing vapours or mist.

Remove and wash contaminated clothing before re-use. Prolonged or frequently repeated

skin contact may cause allergic reactions in some individuals. This product is toxic to fish.

This product is toxic to: Aquatic invertebrates.

4. First Aid Measures

If in eyes, hold eye open and rinse slowly and gently with water for 15-20min.Remove

contact lenses.

If skin contact, take off contaminated clothing. Rinse skin immediately with plenty of water

for 15-20min.

If swallowed, call poison control centre or doctor immediately of treatment advice. Have a

person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by

the poison control centre or doctor.

If inhaled, move person to fresh air .If person is not breathing, call an ambulance, then give

artificial respiration, preferably mouth-to-mouth if possible. Call a poison control centre or

doctor for treatment advice.

5. Fire-Fighting Measures

Extinguishing media;

Fire extinguishing media: Water spray, Foam, Dry chemical, Carbon dioxide (CO2).

Special fire-fighting procedures: In the event of fire, wear self-contained breathing apparatus.

Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and if

conditions permit, let fire burn itself out since water may increase the area contaminated. Do

not allow run-off from fire-fighting to enter drains or water courses. Cool containers / tanks

with water spray. Control Runoff. (on small fires) Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing.

Spill Cleanup: Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures: Prevent material from entering sewers, waterways, or low

areas. Never return spills in original containers for re-use. Dispose of in accordance with



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local regulations.

7. Handling and Storage

Handling: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children and pets. Not for use or storage in or around the home.

8. Exposure Controls/personal protection

Applicators and other handlers must wear: Long sleeved shirt and long pants. Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils Shoes plus socks.

Applicators and other handlers of the diluted material must wear: shirt, pants, socks and shoes. Waterproof gloves.

Protective measures: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. Physical and Chemical Properties

- Appearance: Off-white granules

- Odor: Mild woody smell

- pH Value: 7.5 at 10g/L (20°C)

- Density: 0.8 g/ml

10. Stability and Reactivity

Stability: Stable at normal temperatures and storage conditions.

Incompatibility: None reasonable foreseeable.

11. Toxicological Information

Acute oral toxicity: LD₅₀ in rat: 268 a.i.mg/kg

Acute dermal toxicity: LD₅₀ in rat: >5000 a.i.mg/kg



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Acute inhalation toxicity: LC₅₀ in rat: >5.5 a.i.mg/L

Skin irritation: Slight irritating (rabbit)

Eye irritation: Moderately irritating (rabbit)

Sensitization: Not a skin sensitization (guinea pig)

12. Ecological and Ecotoxicological Information

Effect on birds: high toxicity to birds, acute LD₅₀ for Colinus virginianus is 98 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC₅₀ for Rainbow trout is 0.65 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC₅₀ for Daphnia magna is 0.6 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC₅₀ for Raphidocelis subcapitata is 0.11 a.i.mg/L.

Effect on honeybees: high toxicity to honeybees, contact acute 48 hour LD₅₀ is 0.094 a.i.µg/bee; Oral acute 48 hour LD₅₀ is 0.26 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC₅₀ for Eisenia foetida is >625 a.i.mg/kg.

13. Disposal Considerations

Waste Disposal: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Container Disposal: Refer to the product label for instructions.

14. Transport Information

Not applicable

15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information



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applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.